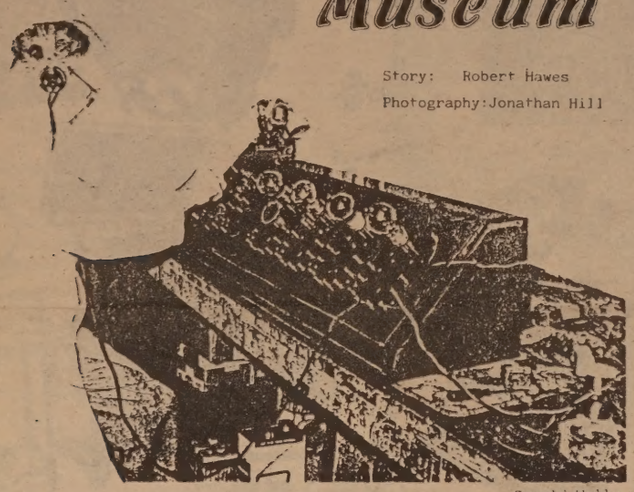
VOL.XV No.8 OCTOBER 1986 SECOND CLASS POSTAGE PAID AT DALLAS, TEXAS POSTAL IDENTIFICATION
PUBLISHED BY JIM CRANSHAW, N5FSL MONTHLY EXCEPT JULY AND AUGUST STATEMENT, PAGE 2.
PRICE $10.00 YEARLY SINGLE ISSUE $1.50 PUBLISHED SINCE 1972
(214) 286-1673

THE HORN SPEAKER

PUBLISHED SINCE 1972

The Vintage Wireless Museum



Story: Robert Hawes
Photography: Jonathan Hill

Gerald Wells

Certainly the largest in the UK, if not in Europe, is the Vintage Wireless Museum in Dulwich, within easy access of central London. More importantly, it is a unique example of a living and ever-developing museum, unlike those dead, stagnant, musty repositories which deserve the name of mausoleum rather than museum. It is, in fact, the ideal in museums. Just as a nature-lover prefers an aviary to a case of stuffed birds, a wireless enthusiast must surely prefer working sets he can handle to petrified remains in a display-case.

The Vintage Wireless Museum, at 23 , Rosendale Road, West Dulwich, is the ever-expanding private collection of Gerald Wells, who also runs the " Vintage Wireless company ". But so close are his friendly links with the British Vintage Wireless Society and so many of its members that Gerald's museum, workshop and even his home have bcome over the years a kind of unofficial " clubhouse". This is especially so on Friday evenings which have become a sort of tradition there of gatherings of enthusiasts. At almost any time of the day, and sometimes well into the night, visitors may find enthusiasts with thier noses actually inside sets in the museum ; others busy soldering or french-polishing in the workshops; some seeking data in the library- and still more exchanging yarns over endless cups of tea in the kitchen. Visitors come from near and very far - some even with their sleeping-bags to camp out in his sitting-room.

It is an establishment which answers many an enthusiast's prayers: whether they are seeking to acquire anything wireless from a nut-and-bolt to a complete set; whether seeking information, advice or practical help or an expert full-restoration; or simply seeking a pleasant and educative evening among friends.
Gerald's large Victorian house and the series of outbuildings he has designed and constructed in a style he waggishly refers to as " Welsh Chapel", is by choice museum first and home second . That it is surrounded by a sort of " ether " is scarcely surprising, since the house seems steeped in wireless history. Born in the house, Gerald received his introduction to electricity at the age of two: a shock from the nursery wall-socket, which seems to have galvanised him into a kind of"Wireless-itis" which has lasted to this day. Perhaps the " spirit " of the house has been his guide through an industrious life during which he has acquired a remarkably varied knowlege and experience, to say nothing of a wealth of anecdotal wireless and related information encompassing wit as well as wisdom. His spectoral mentor may possibly be the ghost of a certain Mr. A. Rickard-Taylor, former occupant of the house, who seems to haunt it benevolently still. A science-master at the nearby Dulwich College, he was an early wirless amateur who set up his own transmitter 2AF and broadcast on 350 metres from there until 1914. The old enthusiast makes his prescence felt occasionally by obligingly making lost components materialise just as Gerald has given up looking. And whenever Gerald goes digging in the garden, bits of the old boffin's transmitting aerial and earth systems come to light. By the age of twelve, Gerald had built his first radio- an " F.J. Camm short-wave Two" and he couldn't be kept out of the family radiogram, which he took over and has maintained ever since. On his thirteenth birthday he got an Avo as a present and began making service calls on his bicycle in an ever-widening area around his home. He resigned from his first ten-bob-a-week job to build his own workshop and start out on his own. The business grew steadily and after the war he even went into manufacturing, producing TRF's at £4 a time for a hungry market which had not seeen "new" sets since 1939 - except for the wartime "utility " ones. He also began making amplifiers and founded the "Wadar" company to undertake public-address installations for conferences and outdoor meetings as well as cinema work. By 1951, business had boomed modestly, so Gerald invested in a £10 Austin Seven. Having phased out his bike, he had to work harder to earn money to fuel the new Wellsmobile at the rate of two-and-sixpence (12½p) a gallon. Although a lot of radio work was still around in 1948, television work was beginning to form a major part of Gerald's business, and by that time, he has acquired training and experience at EMI which enabled him to develop still further. But now the pendulum is swinging back again, for he is phasing out television (he prefers valves and wires to chips and printed circuits) and finds he is in great demand for the kind of work which was his hobby as a boy: repairing and restoring equipment which has now become"vintage" .

Unlike many of his contemporaries, who continually discarded their old sets in favour of newer models, Gerald retained what everyone else seemed to be throwing away- and kept it going too. But he began his collection proper in 1958, with a Philips 634A (the set in the " Ovaltiney" TV advertisement). His notion to start a wireless museum occured to him in 1964 during a visit to Lord Montagu's stately home at Beaulieu. " If he can do it with vintage cars, I can do it with vintage radios " he vowed. And so he did. He began rescuing old sets from rubbish dumps and even dustbins, carefully restoring them to health and beauty. Soon, he found that there were many people who had old equipment tucked away in lofts and cellars which they looked on in much the same way as people regard aged cats who have lost their usefulness : well-loved pets which can be parted with only if they can be promised "a good home " where they will continue to be cosseted . That home was, of course the museum, which still depends a lot upon donations, although they are entirely unsolicited, and receives no financial grants from any source. The collection is still growing, and through the years, Gerald has also purchased a great many sets and well as test and servicing equipment and a huge store of spares of all kinds and all vintages, including some 20,000 valves. Gerald sometimes sells or swaps items which are " doubled " in the collection and will supply a great many items from his stock , although some must be retained to maintain the museum specimens.

In a replica of a 1930 wireless shop, a customer hands in an accumulator

Making reproductions is only one of Gerald's specialities- but he is careful to ensure that there is never any deception. He produces honest replicas of "Peter Pan" and " Snow White " sets, for instance, using original circuits and vintage components, making " rarities " available to collectors who might be unable to possess original examples.

VINTAGE WIRELESS MUSEUM

VINTAGE WIRELESS COMPANY
collectors and restorers
of early radio sets
Prop: Gerald L. Wells
23, Rosendale Road, SE21
Telephone: 01. 670 3667

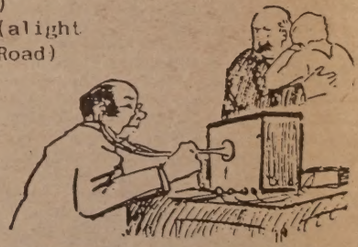
England

A SELECTION OF SETS FROM THE MUSEUM
-just a fraction of the total !

Below stairs: Gerald Wells in his "vintage" cellar , where the bottles are 20,000 valves.

A step into the past: Gerald's sitting room with its early TV sets

British Rail stations:
Tulse Hill and West Dulwich.
Tube: Brixton.
Buses: No.2 from Brixton (alight at Myton Road)
No.3 from Brixton (alight at Park Hall Road)



If you would like to meet Gerald and see his museum and workshops, you will be assured of a warm welcome. He likes new visitors to be introduced by BVWS members he already knows. And please telephone him before calling. He could be out and about, maintaining the wireless-sets and television receivers which in many cases he has been keeping going for twenty or thirty years., Or like as not, he may be sleuthing in the dark of night , rummaging among the rich refuse of our microelectronic age.

POSTAL IDENTIFICATION STATEMENT— THE HORN SPEAKER (USPS) 956120) is published monthly, except July and August by Jim Cranshaw, 9820 Silver Meadow Drive, Dallas, Texas 75217. Subscription rates are $10.00 yearly and $17.00 for two years. Second class postage paid at Dallas, Texas. POSTMASTER: Please send address changes to; THE HORN SPEAKER, P. O. Box 53012, Dallas, TX 75253

studio with "Celotex" and the more artistic students painted appropriate murals on three sides of the studio walls.

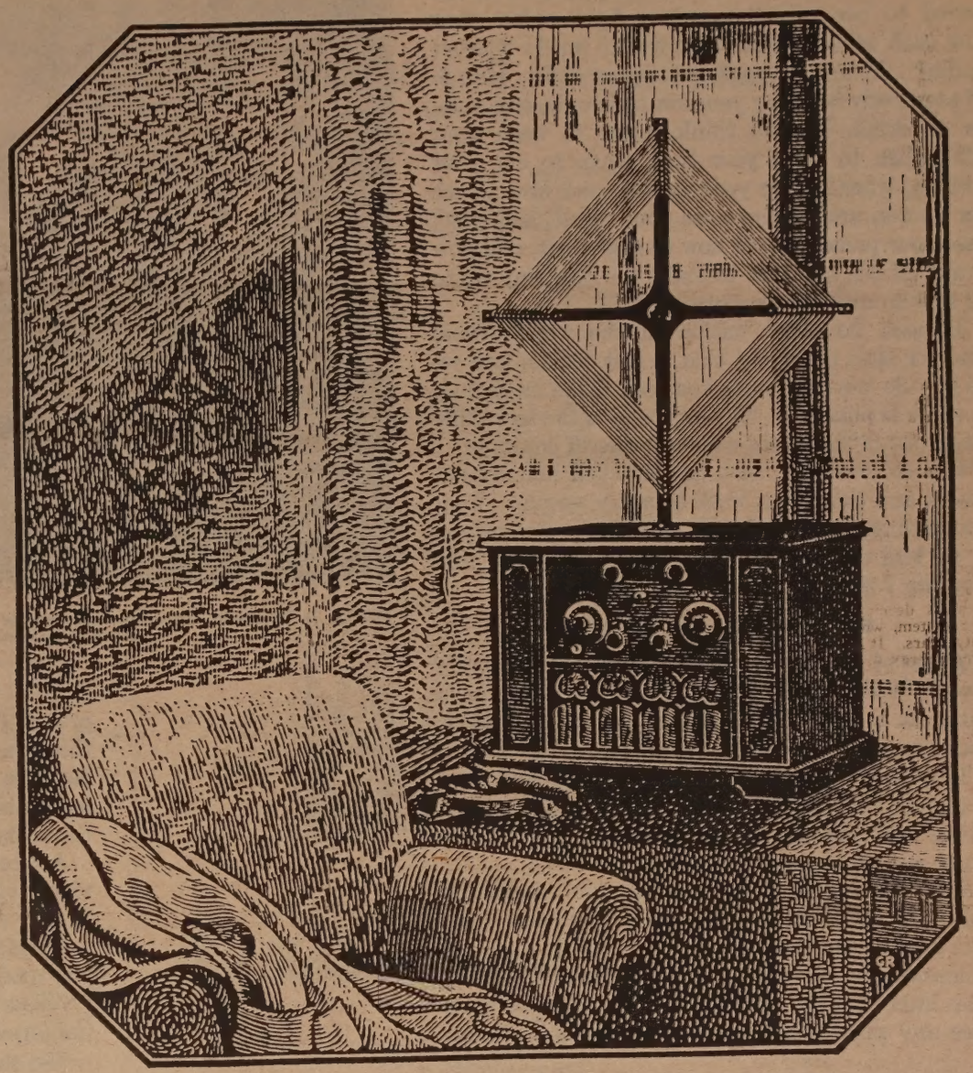
The antenna was a four wire flat top held up by a 125 foot pipe mast. An eight wire counterpoise was strung directly beneath the antenna. The station operated on 483 meters. A homemade absorption type wave meter was used to check the wavelength and during damp days it was questionable whether the transmitter or the wavemeter was off the assigned frequency.

Station time on the air was broken into several segments and was as follows: mornings, Monday through Friday, 9-10 a.m.; afternoons, Monday and Friday, 2-4 p.m.; Tuesday through Thursday, 2-3 p.m.; and 6-7 p.m. on Monday nights.

The station was primarily an outlet for the various school activities, such as; orchestra, band, glee club and assorted solo numbers by the students. Various atheletic activities were also aired such as basketball and indoor track meets.

The station operated at a financial loss and the Chicago board of Education eas very stingy with the needed dollars for the purchase of some vital pieces of equipment. This, coupled with the Department of Commerce requirement for crystal control of the assigned wavelength, forced the end of a fond dream.

by Leo L. Gibbs



De Forest

DE FOREST D-12 RADIOPHONE
1925

GREBE CR 5

150 to 3,000 Meter Receiver

1921

By ARTHUR H. LYNCH

FOR the reason that time signals and press are sent from the Arlington Station, on a wave length of 2,500 meters, it has always been realized that the ideal receiver for amateur use should be made to reach that wave. Since the distributing of market reports by the government has been undertaken with a system of the continuous wave type, the need for a receiver covering this wave length has been felt even more keenly, for these reports are transmitted on a wave considerably beyond the range of the receiving set which is limited to strictly amateur wave lengths.

The building of a receiver which would cover the short waves as well as the comparatively longer one of N A A has been a rather difficult problem. One great reason for this was that it took many months to produce a set, which could be honestly backed by a manufacturer as being satisfactory on the entire range.

Such a receiver has now been on the market for several months and it is giving entire satisfaction, for in addition to cov-

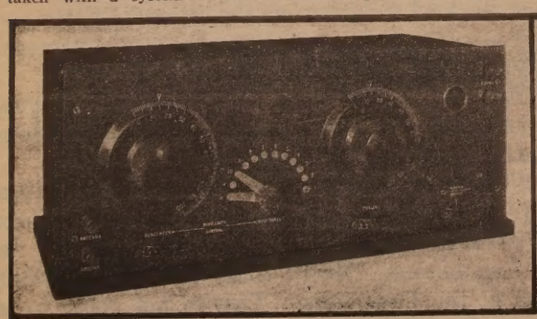
(*Continued on page* 946)

ering the wave length range, it is particularly easy to operate.

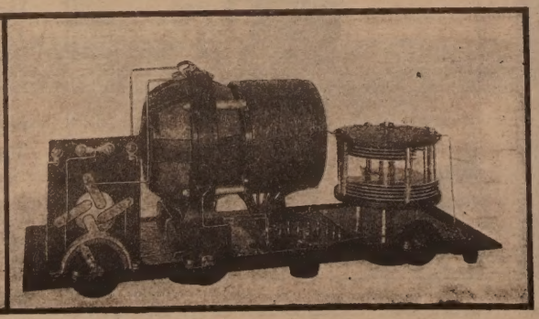
The set includes a vacuum tube socket and control system, which was previously of an entirely different design. It was originally necessary to insert the tube thru the front panel and it was held in a horizontal position and projected beyond the panel. In the newer type receiver the tube socket has been mounted in a vertical position which prevents the tube filament from sagging.

The control of the filament battery is now carried out by means of a rheostat, mounted at right angles to the front panel, with the control knob passing thru it. The control knob is marked directly in ohms and runs beneath a pointer on the front panel. There are two other knobs, similar to the rheostat control, which are used for verniers. One operates on the antenna series condenser and the other on the tickler variometer.

The control knobs for the two verniers are mounted on the shafts, which carry little rubber tires, which press against the rear surface of the dials for a friction drive.



External View of New 150 to 3,000 Meter Radio Receiving Set of the Audion Type.



View Showing the Excellent Workmanship and Arrangement of the Apparatus on Rear of Panel.

"You never argue with a woman unless you are married to her. Nations never fight unless they know each other. But what would we do without a radio? At any hour of the day or night, tune in and somebody is telling you how to live, how to vote, how to drink, how to think, when to wash your teeth, when to wash your hair, when to cut your whiskers, when to see your doctor, and how to see your doctor, and when to see your priest, and when to see your preacher, and how to put on fat, and how to take off fat, and how to make the skin stay white and how to make it stay black.

"Honest, no other nation in the world would stand for such advice as that. But we do, and we like it. So the only thing that can make us give up our radio is poverty. The old radio is the last thing moved out of the house when the sheriff comes in.

"It's an invention that has knocked nobody out of work and that gives work to many people. That is something you can't say for many inventions. So, as bad as it is, I don't know, it is the best invention I think that has ever been."

International News Photos, Inc.

Franklin D. Roosevelt, James Roosevelt, Senator McAdoo, and Chairman James A. Farley, enjoying Rogers' humor at the Democratic Convention in Chicago.

FROM A FINAL BROADCAST

For one of his final broadcasts over a nation-wide network, Will Rogers visited Sacramento, California's capital, at a time when the Legislature was about to be adjourned for lack of funds.

"They just get paid for so many days, and then the money runs out," laughed Will. "There ain't nothing will dampen a man's public spirit more than to cut off his salary, you know.

"A lot of States have tried burnin' down the Capitol to get 'em out, but this way that California's got is the best way."

Commenting on the possibility that Roosevelt might intervene, he continued, "He kind of hates to see any place close down, so I wouldn't be surprised if he don't keep this thing going right on through, you know—like he does the CCC camps. He does that to keep the boys off the streets, and he's liable to give 'em money out here just to keep these State Senators off the same places."

A recent change in California's marriage laws provided him with an opportunity to create a good laugh.

"You know, when you got married in this State—you used to give three days' notice.

"That was longer than most of the marriages in California was lasting.

"So they did away with that. So now you don't have to file anything at all. In fact, you don't have to give your right name, according to this new law. You just pay a small amusement tax, that's all."

The California Legislature had voted to allow the Indians liquor, and Rogers, always proud of his Indian blood, was much amused.

"They passed one here to give the Indians their liquor. I don't mean you actually give 'em liquor but they're allowed to git it if they can. They're allowed to buy it.

"One old California cow-puncher from some county put that over. He told them we ought to give the Indians something back—the land or the liquor—so they compromised on the liquor. We kept the land and gave 'em the liquor. Lo, the poor Indian! The Indian, he's a ward to the Government, but we all are now. Everybody's an Indian."

That led to the latest news about Government relief grants to the States and Rogers congratulated Texas on drawing the "Grand Prize."

"Twenty-nine millions dollars last week—Texas did; New York got next prize of $24,000,000. Pennsylvania got third with $23,000,000. And they was all Republicans. Now I think that speaks awfully well of the Democrats. They're not going to let even a Republican starve."

International News Photos, Inc.

Will Rogers as a cadet at the Kemper Military Academy at Boonville, Mo.

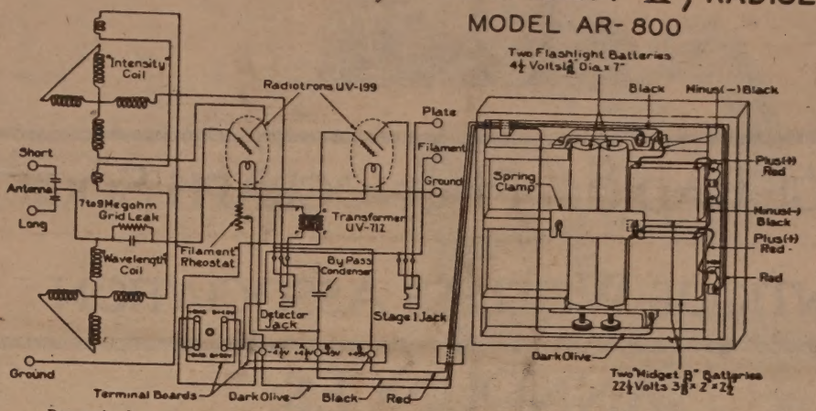
Keystone View Co.

Back in 1904, Will Rogers made his first appearance on the New York stage as a gum-chewing, wisecracking cowboy.

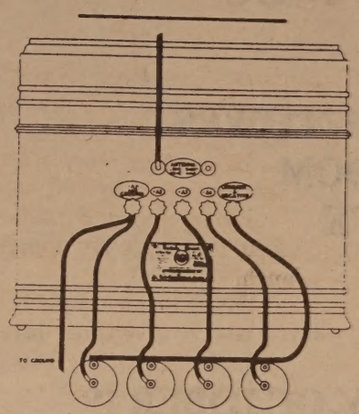
PAGE 3-A

RADIOLA II, RADIOLA GRAND

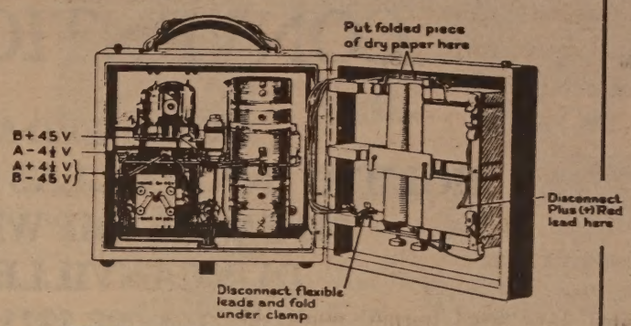
MODEL AR-800



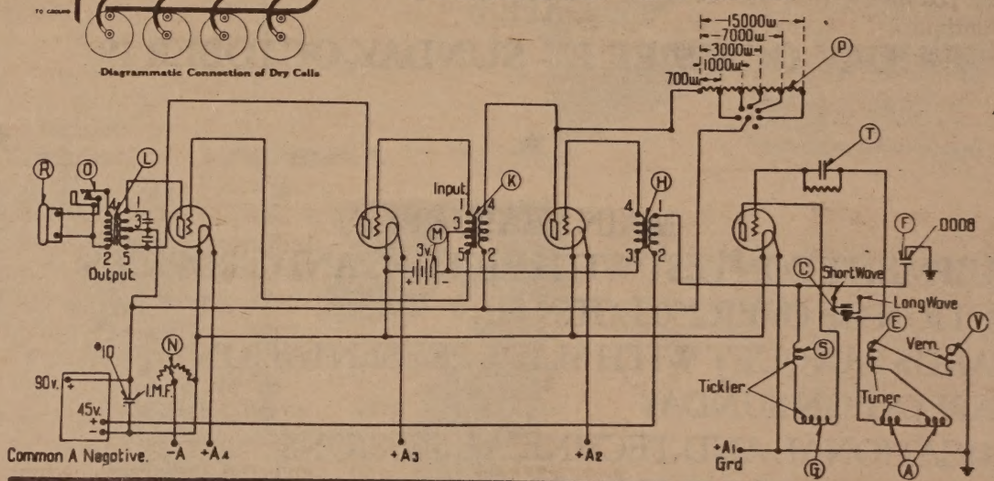
Run a wire from the antenna terminal of the protector to the lower antenna post (marked "LONG") in the center left side of the receiver panel. This is for wavelengths of from 375 to 600 meters. For wavelengths of from 200 to 375 meters, use the upper post (marked "SHORT"). Connect the "GROUND" post on the receiver panel with the ground terminal of the protective device. The foregoing connections are as shown in the diagram.



Diagrammatic Connection of Dry Cells


Put folded piece of dry paper here
B+45 V
A-4½ V
A+4½ V
B-45 V
Disconnect Plus (+) Red lead here
Disconnect flexible leads and fold under clamp

Radiola Grand



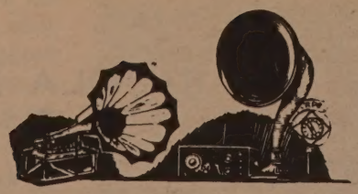
RCA VICTOR DIVISION OF RADIO CORPORATION OF AMERICA, • CAMDEN N. J., U. S. A.

CONTRIBUTED BY LEONARD D'AIRO

********** LATE NOTICE **********

A RADIO SOCIETY HAS BEEN FORMED IN THE PITTSBURGH PENNSLYVANIA AREA KNOWN AS THE PITTSBURH ANTIQUE RADIO SOCIETY -- "PARS" --. IT HAS A PUBLICATION KNOWN AS THE OSCILLATOR. THE SECRETARY IS; DAVID W. KRAEUTER, 506 E. WHEELING STREET, WASHINGTON, PA 15025.

T. A. DROGOSKI



VINTAGE RADIO & PHONOGRAPH SOCIETY
AND
ANTIQUE WIRELESS ASSOCIATION

ANNOUNCES:

CONVENTION '86

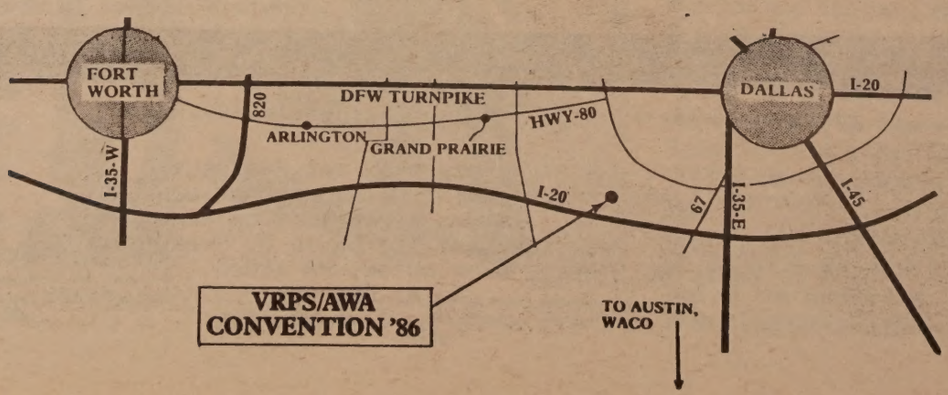
TO BE HELD AT
HOLIDAY INN - DALLAS SOUTHWEST
711 EAST CAMP WISDOM
DUNCANVILLE, TX
214-298-8911

DATES:
FRIDAY, OCTOBER 17 - SUNDAY, OCTOBER 19

★ ★ ★

MAIN FEATURES

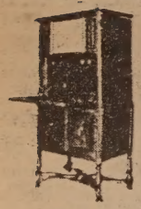
- EQUIPMENT CONTEST WITH RIBBONS AND TROPHIES
- AUCTION OF OVER 250 LOTS
- AWARDS BANQUET WITH SLIDE PRESENTATION
- SWAPFEST ON SUNDAY
- EDUCATIONAL AND TECHNICAL SESSIONS
- DOOR PRIZES FOR THOSE WHO PRE-REGISTER



1925

TRADE NAME: "Farrand Godley."
MODEL: Single 9 with built-in loud speaker, De Luxe cabinet.
TYPE: Five-stage neutralized tuned radio frequency, detector and three audio.
TUBES: Nine.
BATTERIES: "A," 6 volts; "B," 90 and 22½.
CONTROLS: One.
AERIAL: Loop inside or outside.
PRICE: $375.00 without accessories.
MANUFACTURER'S NAME: Farrand Mfg. Company.

TRADE NAME: Federal.
MODEL: Type 141.
TYPE: Two transformer coupled radio, detector and two audio.
TUBES: Five.
BATTERIES: None furnished.
CONTROLS: Two.
AERIAL: Outdoor or indoor.
PRICE: $150.00 without accessories.
MANUFACTURER'S NAME: Federal Telephone & Telegraph Corp.

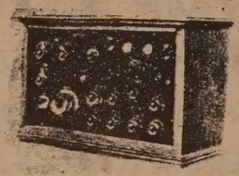


TRADE NAME: Federal.
MODEL: 161.
TYPE: Three transformer coupled radio, detector and three audio with built-in loud speaker.
TUBES: Six.
BATTERIES: None furnished.
CONTROLS: Three main.
AERIAL: Outdoor or loop.
PRICE: $464.00 without accessories.
MANUFACTURER'S NAME: Federal Telephone & Telegraph Corp.

TRADE NAME: Federal.
MODEL: 110.
TYPE: One radio, detector and one audio.
TUBES: Three.
BATTERIES: None furnished.
CONTROLS: Three.
AERIAL: Outdoor.
PRICE: $105.00 without accessories.
MANUFACTURER'S NAME: Federal Telephone & Telegraph Corp.

TRADE NAME: Federal.
MODEL: 102 portable.
TYPE: One transformer radio, detector and two audio.
TUBES: Four, dry cell type.
BATTERIES: None furnished.
CONTROLS: One.
AERIAL: Outdoor.
PRICE: $140.00 without accessories.
MANUFACTURER'S NAME: Federal Telephone & Telegraph Corp.

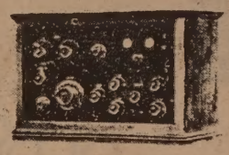
TRADE NAME: Federal.
MODEL: 61.
TYPE: Three stages transformer coupled radio, detector and two audio.
TUBES: Six.
BATTERIES: None furnished.
CONTROLS: Four.
AERIAL: Outdoor or loop.
PRICE: $223.00 without accessories.
MANUFACTURER'S NAME: Federal Telephone & Telegraph Corp.



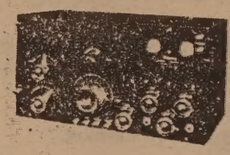
TRADE NAME: Federal.
MODEL: 143.
TYPE: Built-in loud speaker.
TUBES: Five.
BATTERIES: None furnished.
CONTROLS: Two.
AERIAL: Outdoor or indoor.
PRICE: $330.00 without accessories.
MANUFACTURER'S NAME: Federal Telephone & Telegraph Corp.

TRADE NAME: Federal.
MODEL: 144.
TYPE: Built-in loud speaker.
TUBES: Five.
BATTERIES: None furnished.
CONTROLS: Two.
AERIAL: Outdoor or indoor.
PRICE: $330.00 without accessories.
MANUFACTURER'S NAME: Federal Telephone & Telegraph Corp.

TRADE NAME: Federal-Danersk.
TYPE: Two radio frequency detector and two audio.
TUBES: Five.
BATTERIES: "A," 6-volt storage; "B," 90 volts.
CONTROLS: Two.
AERIAL: Outdoor or indoor.
PRICE: $325.00 with accessories.
MANUFACTURER'S NAME: Musical Products Distributing Company, New York.



TRADE NAME: Federal.
MODEL: 59.
TYPE: One-stage transformer coupled radio, detector and two audio.
TUBES: Four
BATTERIES: None furnished.
CONTROLS: Four.
AERIAL: Outside or inside.
PRICE: $177.00 without accessories.
MANUFACTURER'S NAME: Federal Telephone & Telegraph Corp.



TRADE NAME: Federal.
MODEL: 58.
TYPE: One-stage transformer coupled radio, detector and two audio.
TUBES: Four.
BATTERIES: None furnished.
CONTROLS: Four.
AERIAL: Outside.
PRICE: $123.00 without accessories.
MANUFACTURER'S NAME: Federal Telephone & Telegraph Corp.

TRADE NAME: Federal.
MODEL: 142.
TYPE: Built-in loud speaker.
TUBES: Five.
BATTERIES: None furnished.
CONTROLS: Two.
AERIAL: Outdoor or indoor.
PRICE: $230.00 without accessories.
MANUFACTURER'S NAME: Federal Telephone & Telegraph Corp.

OLDE TYME RADIO CO.

Need hard to find Olde Tyme Radio parts such as:

- *Vintage Tubes
- *AK Style Battery Cable
- *Olde Tyme Hookup Wire
- *Brown Silk Type Power Cord
- *Audio Transformers
- *Power Transformers
- *Headphones
- *Headphones & Speaker Cords
- *ANT. RF, OSC, IF Coils
- *Speaker Grill Cloth
- *Pilot Lamps
- *XTAL Set Parts

Also can provide reprints of the following Olde Tyme Radio publications:

- *Atwater Kent Instructors Manual
- *Atwater Kent Equipment Catalog
- *Radiola IIIA Manual

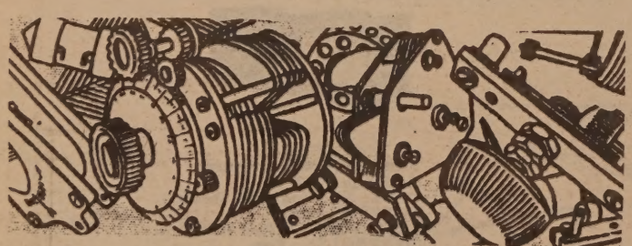
(See flyer for details.)

.VINTAGE RADIO IDENTIFICATION SKETCHBOOK by D. H. Moore

And much, much more, also as a convenience to you, we can even provide copies of those ever popular books 'Vintage Radio & Flick of the Switch' in soft covers. Schematics of many radios and TV sets are also available. For free flyer send SASE to Olde Tyme Radio Company, 2445 Lyttonsville Road, Silver Spring, MD 20910.

Wish to reach us by phone? The number is 301-585-8776.

Please call between 10:00 a.m. and 10:00 p.m. est.



Amazing Music Machines

Antique Cylinder & Disc Phonographs
Buy - Repair - Restore
Parts and Pieces

EDISON PATHÉ COLUMBIA

VICTOR BUSY BEE BRUNSWICK

Jimmie Grissom
246 Keene St.
Henderson, NC 27536
Phone: (919) 492-0518

— MEMBER —
Michigan Antique Phonograph Society
California Antique Phonograph Society
Canadian Antique Phonograph Society
Vintage Radio and Phonograph Society

flea market

ADVERTISE IN THE HORN SPEAKER
Box 53012, Dallas, TX 75253 (lower price per square inch— compare)

AD SPACE:
Full page $75.00
Half page $37.50
Quarter page $16.25
Business size card ads $1.00
Space per square inch $0.60

CLASSIFIED ADS .. 15 cents a word. (first 20 words free)
PHOTO ADS ..... $5.00 extra.

****

FOR FREE VINTAGE RADIO PARTS FLYER. SEND S.A.S.E. TO: OLDE TYME RADIO COMPANY, 2445 LYTTONSVILLE, MD 20910.

****

ANTIQUE BEEHIVE WHITE INSULATORS - $1.00 EACH —— HEAVY DUTY T.V. REPLACEMENT TRANSFORMERS, NEW BOXED AT $20.00 EACH. —— 50 YEAR COLLECTION OF VACUUM TUBES LOW LOW PRICES. INQUIRE M. LEVY, 101 EAST DRIFTWOOD #44, FBG, TX 78624 TEL (512) 997-2534.

****

VINTAGE RADIO AND RELATED LITERATURE. LSASE FOR LIST. FOTHE, 10 JACKSON STREET, SLOATSBURG, NY 10974.

****

FOR SALE. SERVICE DATA, PARTS, TUBES, TEST EQUIPMENT. LIST #2-86. SASE. KRANTZ, 100 OSAGE AVENUE, SOMERDALE, NJ 08083.

****

ACME 'ACMEFLEX' (1925, VG TO EXC, UNTRIED, BOTH AUDIOS OK) $75 —— PHILCO 43B (1932, EXP REF'D, WORKS) $190 —— PHILCO 70B (1931, NICELY REFINISHED, SMALL VENEER PATCH ON THE TOP REAR OF CABINET, WORKS) $190 —— BULB SHAPED TUBES AND RADIO BOOKS ——— SEND LARGE 2 STAMP S.A.S.E. FOR COMPLETE AND UP-TO-DATE PHOTO LIST. ——— RON BOUCHER, 376 CILLEY ROAD, MANCHESTER, NH 03103. (603) 669-1698.

****

FOR SALE TUBE COLLECTION — LARGE SASE FOR LIST. BILL THOMPSON, 1095 NW 147 ST., MIAMI, FL 33168 (305) 685-1993.

****

FREE some old time radio for SASE, new, super flyer completely revised. 4 pages of radio. Olde Tyme Radio, 2445 Lyttonsville Road, Silver spring, MD 20910

****

CRYSTAL, TUBE EXPERIMENTER'S catalog - $1.00 - None free. Sets, kits, handbooks, plans, coils, supplies, obsolete tube quotations. Laboratories, 1447-H, Garden Grove, CA 92642.

****

2 WD11 BRASS BASE glass tip. —— -1- 201A brass base glass tip. -1- arm chair Zenith radio. —— Lots of 01A's —— Russ Schoen, R #1, Clintonville, WI 54929.

****

FOR SALE: RIDERS 1 THRU 8 WITH INDEX, 300 OLD MAGAZINES, WIRELESS PARTS, 150 PANEL METERS, TEST EQUIPMENT, TELEGRAPH ITEMS, COMMUNICATION RECEIVERS, BROADCAST RADIOS, THOUSANDS OF PARTS, TUBES, MANUALS,. SEND WANTS AND LARGE SASE OR CALL. FOR GOOD DEAL, YOU EYEBALL, YOU PICKUP. — BILL THOMPSON, 1095 N.W. 147 STREET, MIAMI, FL 33168. (305) 685-1993.

****

(2) WD11 BRASS BASE, GLASS TIP, (1) 201A BRASS BASE, GLASS TIP, also (1) dud, BEST OFFER. AK—model 55- — Russ Schoen, R# 1, Clintonville, WI 54929.

****

FOR SALE: SCOTT PHILHARMONIC housed in Scott Rivinia Grand Console, includes original Presto Record Cutter, original Garard phonograph phonograph, with special chrome PRE-AMP, original Scott remote control with control box, and original keys to lock all four doors. Set is complete. Trade or best offer. Denis Yanko, 410 N. Summit, Oconomowoc, WI 53066. (414) 965-3641 after 5:00 cst.

****

WANTED

SPARK EQUIPMENT -Parts, especially including Commercial Rotary Gap, RF Spark Condenser, or even completer rigs. Paul C. Crum, W9LC, 6272 N. Cicero Avenue, Chicago,

Illinois 60646. (312) 282-3033.

WANTED HALLICRAFTER SX-71 OR NATIONAL NC-183 in excellent condition. Please state price and condition when corresponding. Roy Schmitt, Rt. 1, Box 800 Lot 84, Converse TX 78109 (512) 659-0094.

McINTOSH INFORMATION- books, brochures, owner manuals, etc. or sources of information. Also want McIntosh equipment. John Kendall, 600 Remington Road, Fallston, MD 21047.

RUSS'S OLD RADIO MUSEUM WANTS OLD AMATEUR TRANSMITTER AND RECEIVERS, MAGAZINES, TUBES, BOOKS, KEYS, ETC. IN THE 1920'S-30'S. I HAVE A LIST OF FOR SALE ITEMS. — PLEASE TELL ME YOUR WANTS. — SEND A SASE. K4UJZ, RUSS OLMSTED, 608 W. THOMPSON LANE, MURFREESBORO, TN 37130.

S.A.S.E. is a self addressed stamped envelope.

WANTED COAXIAL OR TRIAXIAL SPEAKERS of Jensen, Trusonic, Tannoy, Altec 604's. Western Electric equipment (tubes, amps., drivers, horns, speakers, microphones and parts). Radio tubes (50's, 211, 845, 8005) David Yo, P. O. Box 832, Monterey Park, CA 91754. Tel. (818) 576-2642.

CATHEDRAL RADIOS, MUST BE NICE AND WORKING CONDITION. WILL PAY TOP DOLLAR. ALSO WANT OTHER UNUSUAL AC RADIOS. HAROLD PERKINS, 4468 SUN VALLEY DRIVE, LAS VEGAS, NV 89121.

WANTED —— RCA CREDENZA'S, Edison windups - speaker systems and components, JBL Hartfield, Paragons- Altec Laguna, Magnificent, 515A/B, 288B/C, 604B/C/D/E, E.V. Patricians, Tannoy Autograph, GRF - Red/ Silver/ Gold, Jensen G610, Western Electric theatre equipment, speakers, drivers, horns, electron tubes, mixers, x-formers, x-overs, tubes, round top 45, 50 - W.E. 252A, 300A/B, 350B, etc. Charles Dripps, 4331 Maxson Road, El Monte, CA 91732. (818) 444-7079.

WANTED —— GRANDFATHER CLOCK RADIO and Radiola IV. Gordon Wilson, 11108 - 50 Avenue, Edmonton, Alberta, CAnada, T6H 0H9

WANTED— OLD 1960s or 70s large Allied Radio Catalogs. Earl Phillips, 311 David Lane, Maryville, TN 37801.

WANTED: BOOKS; buy, beg, borrow, rent or steal. Twining, "Wireless Telegraphy and High Frequency Electricity;" Curtis, "Construction of Induction Coils & Transformers;" Collins, "The Amateur Electrician's Handbook;" and other books with Tesla coil projects. Need data for forthcoming bibliography. TCBA, RD 3, Box 181, Glens Falls, NY (518) 792-1003.

WANTED- INSTRUCTIONS FOR OPERATING Hickock tube tester model # 600-A plus supplement tube data sheets. Zerox copies OK. Frank Hoffert, 19605 Chardon road, Cleveland, OH 44117. Tel. (216) 481-0226.

WANTED— OLD 1960s or 70s large Allied Radio Catalogs. Earl Phillips, 311 David Lane, Maryville, TN 37801.

WANTED— FOUR WIRE OSC. COIL 266KC or Philco part 322828. Don Aldred, 39 East 8th Street, Jacksonville, FL 32206.

URGENT— URGENT—— NEED PART FOR VOLUME CONTROL FOR AK BREADBOARD MODEL 10. STRIP THAT HAS WIRE WOUND ON INSIDE OF CONTROL. RUSS SCHOEN, R#1, CLINTONVILLE, WI 54929.

WANTED: INFORMATION OR EQUIVALENT CHARTS ON MUTER BRAND BALLAST TUBES. OLD CATALOGS MAY LIST THEM. ANTHONY JACOBI, 8053 MAYWOOD, RALSTON, NE 68127.

WANTED - New or used OA2 voltage regulator tubes. Need 1200, must be reasonable. Tom Burgess, Box 9769, Little Rock, AR 72219 - (501) 565-1750 evenings.

WANTED: GRANDFATHER CLOCK RADIO, AK, Philco, etc. Gordon Wilson, 11108 - 50 Avenue, Edmonton, Alberta Canada T6H 0H9.

WANTED: ONE REMLER DRUM DIAL WITH DIAL PLATE. THIS DIAL IS GEAR DRIVEN AND IS ABOUT 4" IN DIAMETER. MUST HAVE A CLEAN DIAL SCALE. WILL PAY $25 FOR A CLEAN COMPLETE UNIT. BOB HERBIG, 4178 CHASIN STREET, OCEANSIDE, CA 92056.

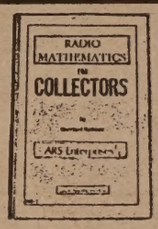
AMATEUR RECEIVERS— GREBE, HAMMARLUND, NATIONAL BRETING, HOWARD, HALLICRAFTER, ALSO EARLY QST'S, HANDBOOKS, CRYSTAL SETS. K4UJZ, 608 W. THOMPSON LANE, MURFREESBORO, TN 37130.

RADIOLA Balanced amplifier— RADIOLA IIIA. whole— parts— junk. State price and condition when corresponding. B. Block, 2118 Winn, Kemah, TX 77565.

WANTED — TWO WINDING OSCILLATOR COIL, 265 kc I.f. frequency badly needed. For sale Thompson flybacks and yokes, two thru 167. $12.95 postpaid. — Don Aldred, 39 East 8th Street, Jax. FL 32206.

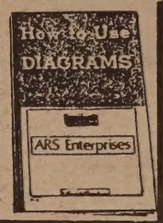
ARS' hobby BOOK corner

DIRECTORY OF RADIO COLLECTORS AND SUPPLIERS
Nearly two thousand entries, also includes TV and Phonograph collectors. Catagories include: Domestic collectors, suppliers, clubs, libraries carrying old servicing information, manufacturers, museums, publications and foreign collectors. $4 (Item P-1)



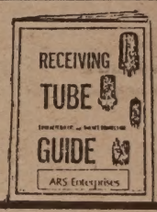
RADIO MATHEMATICS FOR COLLECTORS
Explains many electronic terms, such as Ohm's Law, AC currents, ohmmeter testing, wattage, series and parallel circuits, capacity, inductance, tubes, etc. Includes a decibel chart and useful formulas used in radio and wiring data. $2 (Item P-3)

HOW TO USE DIAGRAMS IN RADIO SERVICING
This guide helps you read old circuitry, find problems, replace parts and understand variations in manufacture. Covers testing procedures, contains helpful hints. Includes chart of old parts symbols. $2 (Item P-4)



ARS GUIDE TO FINDING SERVICE INFORMATION
Guide for determining age and manufacture of sets, and identifying sources of service information available for a particular vintage. $2 (Item P-2)

RECEIVING TUBE CHARACTERISTICS AND SOCKET CONNECTION GUIDE
Lists nearly all receiving tubes likely to be found in early radios. All important data such as wiring diagrams, function, voltage and current reading, etc. are presented in an easy-to-read format. $3 (Item P-6)

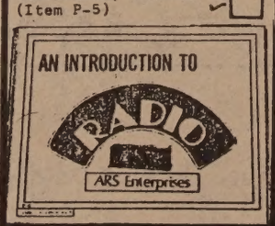


RECORDED SOUND
Follows the development of music boxes, player pianos, gramophone and the phonograph. Traces Edison's work with wax cylinders to the emergence of Victor Talking Machine Co. $2 (Item P-7)

INDEX FOR SUPREME PUBLICATIONS MOST OFTEN NEEDED RADIO AND TELEVISION MANUALS
Complete copy of the index to Supreme manuals. $8 (Item I-1)

AN INTRODUCTION TO RADIO
Explanation of old radio circuitry. Discusses and reviews ballast tubes, superhets, batteries, oil condensers, etc. $3 (Item P-5)

COMMUNICATIONS-FROM SMOKE SIGNALS TO SATELLITE
Discusses Morse and Vail developing the Morse code, how an escaped killer interested the public in the telegraph. Also covers the advent of the telephone and radio. $1.50 (Item P-8)

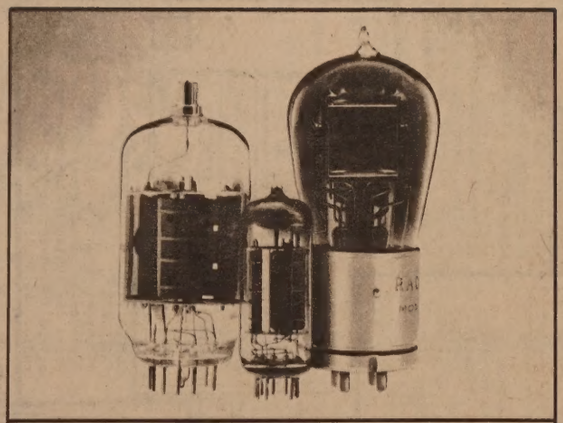


Name _____
Address _____
City _____
State _____ ZIP _____
HS-3

TOTAL $
WA RESIDENTS ADD 8.1% STATE SALES TAX
TOTAL SHIPPING, HANDLING 2.00
TOTAL →

VISA MasterCard

ARS ENTERPRISES
P.O. BOX 997
MERCER ISLAND, WA 98040



TUBES — 2,000 TYPES
DISCOUNT PRICES!

20-pg. wholesale catalog for the radio collector/hobbyist. Antique, hard-to-find and modern tubes. Also transformers, capacitors and parts for tube equipment, and books, etc.

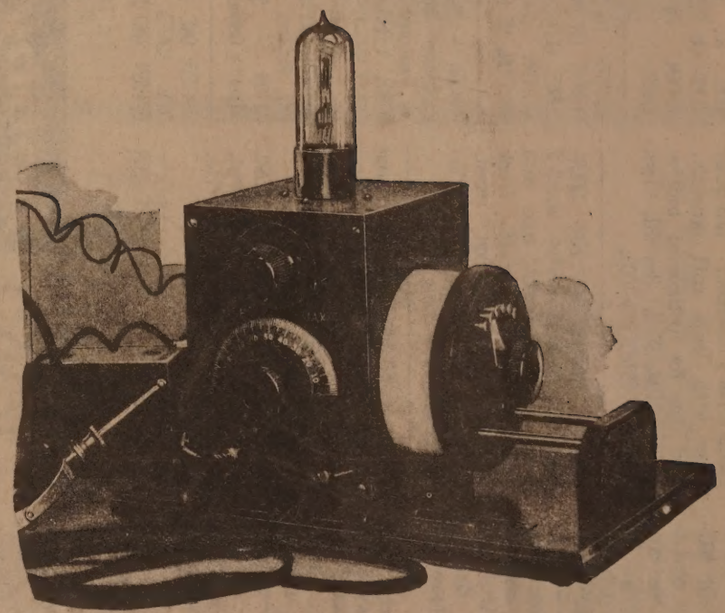
ANTIQUE ELECTRONIC SUPPLY

688 W. First Street • Tempe, AZ 85281
602/894-9503

October

THE HORN SPEAKER

1986



3

ART B CORBUS
5704 11TH AVE NW
SEATTLE WA -98107